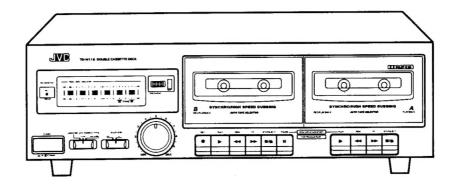
JVC

SERVICE MANUAL

DOUBLE CASSETTE DECK

TD-W118BK B/C/EN/G/J/U/UB



Area Suffix BU.K. CCanada ENNorth Europe GGermany JU.S.A. UOther Areas UBHong Kong

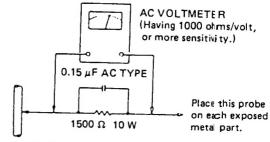
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Safety Precautios

- The design this product contains special hardware and many circuits and components specially for safety purposes. For continued
 protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts
 must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made.
 Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading and (\(\Delta\)) on the schematic diagram and by (\(\Delta\)) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- 5. Leakage current check (Electrical shock hazard testing)
 - After re assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet, using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 0.5mA AC(r.m.s.)
 - · Alternate check method
 - Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each Good earth ground



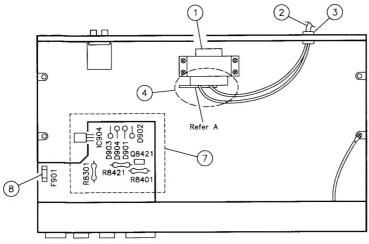
exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.).

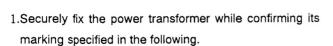
♦ Warning (UK only)

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

◆ Important Management Points Regading Safety

(Items Demanding Special Safety Precautions)



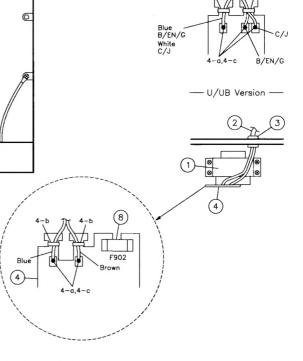


Suffix	Marking	Description
J	KEL•54-001S1	UL approved No.
С	VTP54A2-051C	
B/EN/G	VTP54Z2-011C	
U/UB	VTP54G2-031C	

2.Power cord : Make sure of the following markings and inspect exterior scratch and damage.

	Power cord	Attachment plug
J	SPT-1	KP-10W or SD-008P
С	C SPT-1 KP-10W or SD-0	
EN/G	∨DE ▷	KP-419C or SE-1
В	B BASEC BS6500 KP-610 3A	
U/UB	U/UB ⊲ VDE ▷ KP-8⊦	

- 3. Install the cord bushing by the specified tool while confirming the marking. Bushing: NIFCO 2271 (C/J only)
- 4. Wiring terminal
 - a)When installing the power cord, wind it around the terminal by the end before soldering.
 - b)Arrange the wires while binding them nearby the terminal.
 - c)The end of respective power cords is soldered in the air and the space from others must be 3.2 mm or more in the distance.



- Since the following parts are hear generation ones, they must no contact with electolytic capacitors, wires, etc.
- Following parts are inflammables, Make sure of their lift
 up condition for the purpose.
- Parts in box ____ must be controlled.

 IC904, D901, D902, D903, D904, Q8421, R8301, R8402, R8421.
- 8. All fuses must securely be connected. In B/EN/G/U/UB version, F901 must be specified by the rating of T300 mA shown on the surface as well as by the marking of ⑤, or in U/UB version, F902 must be specified by the rating of T200 mA shown on the surface well as by the marking ⑤ or ∜.

Instructions

TROUBLESHOOTING

What appears to be trouble is not always real trouble. Make

1. Cassette cannot be loaded.

- · Is the cassette positioned correctly?
- 2. When ➤ PLAY button is pressed, tape does not move.
 - · Has the PAUSE button been pressed? · Is the tape too loosely wound?
- 3. When ➤ PLAY button is pressed, it does not remain engaged but is soon released.
 - · Is the tape entirely rewound?
- 4. Tape runs, but no sound is heard.
- · Are all connections properly and securely made?
- · Is the MONITOR switch of the stereo amplifier set to the
- Is the VOLUME control of the stereo amplifier set to MIN?
- 5. Sound quality is poor.
- . Is the position of the DOLBY B NR switch the same for both recording and playback of the same tape?
- Is the head section dirty?
- · Is the record/playback head magnetized?
- · Is the tape worn out?

6. The REC button cannot be pressed.

- · Are the safety tabs of cassette tape broken?
- · Has the ► PLAY button of deck B been pressed?
- 7. Recording cannot be performed.
 - · Are all connections properly and securely made?
 - · Is the head section dirty?
 - Is the DUBBING switch set to NORM or HIGH SPEED?
- 8. Previously recording is not completely erased.
- · Is the erase head dirty?
- 9. Since tape speed is irregular, wow and flutter occurs.
- · Is the pinch roller or capstan dirty?
- · Is the tape rewound too tight?

10. Recording from the LINE IN cannot be performed.

· Is the DUBBING switch set to LINE IN REC?

SPECIFICATIONS

: Double cassette deck Track system 4-track, 2-channel

Tape speed : 4.8 cm/sec (1-7/8 inch/sec) (Normal) 1.7 times than normal speed (High)

Frequency response : (-20 dB recording)

TYPE IV tape; 30 - 16,000 Hz

40 - 15,000 Hz (±3 dB) TYPE II tape; 30 - 16,000 Hz

40 - 15,000 Hz (±3 dB) TYPE I tape: 30 - 15,000 Hz

40 - 14,000 Hz (±3 dB)

DECK

-S/N ratio : 58 dB (S = 315 Hz, k3 = 3%.

N = A-weighted, Type IV tape) The S/N is improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with

DOLBY B NR on.

Wow and flutter 0.1% (WRMS), ±0.20% (DIN/IEC, PB) Channel separation 40dB (1 kHz)

Crosstalk 60dB (1 kHz)

k3; 0.8% (Type IV tape, 315 Hz 0 VU) Harmonic distortion Deck A; METAPERM head for playback

Deck B; METAPERM head for recording/playback x 1

2-gap ferrite head for erasure x 1 Electric governed DC motor x 1

Motors Fast forward/ Rewind time

Approx. 120 sec. with C-60 cassette

Input terminals LINE IN (x 1 circuit)

Input sensitivity: 80 mV (0 VU) Input impedance; 50 kΩ

Output terminals LINE OUT (x 1 circuit) Power requirement

Output level; 300 mV (0 VU) Output impedance; 5 kΩ B version: AC 230 V. 50 Hz J version: AC 120 V, 60 Hz Power consumption

: With POWER switch ON: 10 W With POWER switch STANDBY: 1.3 W

Dimensions

 $(W \times H \times D)$: 435 x 140 x 295 mm (17-3/16 x 5-9/16 x 11-5/8")

Weight Accessories

3.8 kg (8.4 lbs.) Pin plug cord..

Design and specifications are subject to change without notice

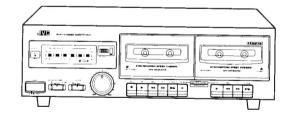
Area suffix		
BU.K.	JU.S.A	





DOUBLE CASSETTE DECK

TD-W118BK B/J







INSTRUCTIONS

ru	r Customer Use:
	Enter below the Model No. and Serial No. which are located on the rear of the cabinet.
	Retain this information for future reference.
	Madel No.

odel No.				
erial No.				

been broken off.

2) The use of C-120 (120 minutes turn around) or thinner tape

3) To prevent recordings from being erased accidentally,

is not recommended, since characteristic deterioration may

remove the tab(s) with a screwdriver. Reseal the slots with

adhesive tape to erase and re-record after the tabs have

Side "A"

4) Do not store cassette tapes where there is a magnetic field

(e.g. near a TV, etc.) or in a place subject to high tempera-

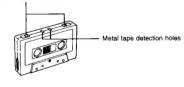
and equalization are set to be suitable for the tape. · Cassettes with detection holes:

tures or humidity.

Metal tape (EQ: 70µs) Type IV CrO₂ (chrome) tape (EQ: 70µs) Type II · Cassettes without detection holes: Normal tape (EQ: 120us) ... Type

Some earlier types of metal and CrO2 (chrome) tapes may not be provided with the detection holes. Avoid using such tanes since correct equalization characteristics cannot be obtained. Also do not use ferrichrome tapes whose characteristics do not match this unit.

CrO₂ tape detection holes



6. Other

Fig. 2

When the POWER switch is turned ON or off (STANDBY) with the deck set to the playback or recording mode, noise may be generated. Before turning the POWER switch ON or off (STANDBY), confirm that the #/# STOP/EJECT button has been pressed.

CAUTION

CAUTION

"TO BEDUCE THE BISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO LISER SERVICEARI E PARTS INSIDE REFER SERVICING TO OUR JEIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOIS-

INFORMATION (FOR U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

(For CANADA)

CAUTION:
TO PREVENT ELECTRIC SHOCK,
MATCH WIDE BLADE OF PLUG TO
WIDE SLOT, FULLY INSERT.

(Pour CANADA)

ATTENTION: POUR EVITER LES CHOCS ELEC-TRICUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU AU FOND



IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your

BE SURE to replace the fuse only with an identical approved type, as originally fitted and to replace the fuse cover

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



Blue to N (Neutral) or Black Brown to 1 (Live) or Red

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IE IN DOUBT-CONSULT A COMPETENT ELECTRICIAN

WARNING (In the United Kingdom)

Pre-recorded tapes, records or discs should not be re-recorded without the consent of the owners of copyright in the sound recording and in any copyright musical or literary work embodied in that recording as this constitutes an infringement of copyright.

Please study this instruction manual carefully before starting to operate the unit, in order to use the unit correctly. We take no responsibility for any problems resulting from misuse of this unit by operating this equipment other than instructed in this manual

FEATURES

- 1. Synchro start (normal-/high-speed) dubbing
- 2. Dolby B noise reduction system
- 3. 2-color 6-LED peak level indicator
- 4. Metal tape compatibility
- 5. Auto tape select mechanism (decks A and B)
- 6. Continuous playback
- 7. INPUT LEVEL control
- 8. Full auto ston
- * Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol TT are trademarks of Dolby Laboratories Licensing Corporation.

Thank you for purchasing JVC product. Read this instruction book carefully before operating to be sure of getting optimum performance and longer service life from the unit.

CAUTIONS

- 1. Prevention of Electric Shocks, Fire Hazards and Damage
- 1) Even when the POWER switch is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
- 2) Do not handle the power cord with wet hands.
- 3) When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
- 4) Consult your nearest dealer when damage, disconnection, or contact failure is found with the cord.
- 5) Do not bend the cord sharply, or pull or twist it.
- 6) Do not modify the power cord in any manner.
- 7) Do not remove screws to disassemble the unit and do not touch anything inside the unit.
- 8) AC power cord (For U.S.A. version only) The AC power cord of this unit has certain one-way direction connections to prevent electric shock. Refer to the illustration for correct connection. (Fig. 1)



Fig. 1

- 9) Do not insert any metallic objects into the unit. 10) Unplug the power cord when there is a possibility of light-
- 11) If water gets inside the unit, unplug the power cord from the outlet and consult your dealer
- 12) Do not block the ventilation holes of the unit so that heat can escape. Do not install the unit in a badly ventilated place.
- 13) Be sure to unplug the power cord from the outlet when going out or when the unit is not in use for an extended period of
- 2 Installation
- 1) Avoid placing the unit on or adjacent to an amplifier, to prevent hum from being produced by some types of amplifiers. Move the unit to a place not affected by the amplifier. Keep the unit as far as possible from a TV set.
- 2) Avoid installing the unit in a location subject to ambient temperatures exceeding 40°C (104°F) (e.g. direct sunlight, near heaters, etc.) or less than 0°C (32°F), excessive humidity. dust or vibrations
- 3) If this set is moved suddenly from a cold place (0°C) to a warm place, it may not function properly because of moisture generated inside the unit. The unit will function properly 30 minutes after being moved.
- 3. Cleaning the cabinet.

Never use benzine or thinner for cabinet cleaning as they may damage the surface finish.

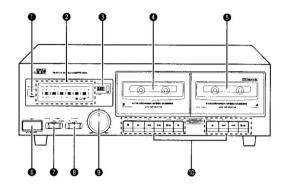
4. Cassette tape

1) Loose tape may become tangled in the tape transport mechanism. Remove slack by winding the tape with a pencil. (Fig. 2)



Turn the pencil to tighten the tape

NAMES OF PARTS AND THEIR FUNCTIONS



⊕ REC indicator

9 PEAK LEVEL INDICATOR

These indicate the recording level during recording and output level during playback.

The LED indication varies with the signal strength during recording and playback.

Note:

0 dB: IEC (DIN) STANDARD LEVEL (250 nWb/m)

0 VU: Signal level at 160 nWb/m

TAPE COUNTER and RESET button (deck B)

- Cassette holder (deck B)
- G Cassette holder (deck A)
- @ POWER switch
- DUBBING switch

LINE IN REC : Set to this position when recording from the LINE IN input.

NORM SPEED: Set to this position for normal-speed dub-

bing.

HIGH SPEED : Set to this position for high-speed dubbing.

WPUI LEVEL CONTI

DOLBY-B NR switch
 INPUT LEVEL control

Adjust the recording level with this control

(Cassette operation buttons (decks A and B)

● REC button : Press this button with the ► PLAY button

to start recording.

PLAY button : Press to play the tape.

REW button: Press to rewind the tape rapidly.

FF button : Press this button to fast forward the tape.

■/≜ STOP/EJECT button:

Press to stop the tape. Pressing this button after the tape stops opens the cas-

sette holder. (The tape automatically stops when it reaches the end.)

11 PAUSE button: Press to stop the tape temporarily.

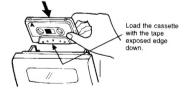
Press it again to release the pause mode.

CASSETTE LOADING

- 2. Load a cassette as shown
- Press the cassette holder to close it.
 Be sure to obtain the click sound to close the holder securely.

Note

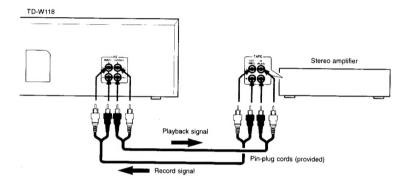
If the power is switched off (STANDBY) while the tape is moving, you might not be able to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.



CONNECTIONS

- Do not switch the power on until all the connections are completed.
- Insert the plugs firmly, or poor contact will result, causing noise.
- When the pin-plug cords are employed, always connect the white plug to the left channel terminal. This helps to avoid reversed connections.

Connection to a stereo amplifier



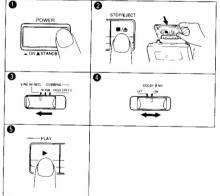
Note:

When installing the deck, be sure to install at a distance from your amplifier. If they are stacked, noise (hum) may occur.

PLAYBACK

Playback of deck A

Operate in the order of the numbers in the illustration.



- Press the POWER switch to set to ON (__).
- Insert a prerecorded tape into deck A.
- Set the DUBBING switch to LINE IN REC.
- Set the DOLBY B NR switch to the same position as when the tape was recorded.
- ⑤ Press the ► PLAY button of deck A to start playback.

Playback of deck B

Perform steps 2 to 5 of the above procedure for deck B.

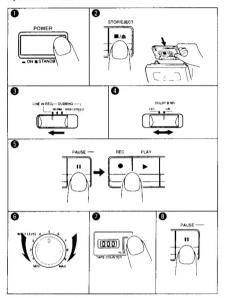
Continuous play

Load cassettes in both decks and press the ► PLAY button of deck A, then press the ► PLAY and ■ PAUSE buttons of deck B. When deck A enters the auto stop mode, the ■ PAUSE button of deck B is automatically released and deck B begins playback.

Notes:

- Use tapes recorded using the same NR mode in decks A and B.
- Be sure to start from deck A when performing the continuous play.

Operate in the order of the numbers in the illustration.



- Press the POWER switch to set to ON (__)
- 2 Load a cassette for recording.
- 3 Set the DUBBING switch to LINE IN REC.
- Set the DOLBY B NR switch as required.
- Press the PAUSE button then REC and ➤ PLAY buttons simultaneously (record-pause mode).
- 6 Adjust the recording level.
- Press to "000".
- Press again to release the pause mode and to start record-

Do not operate deck A during recording. In this case, noise may occur and the tape speed may vary.

It should be noted that it may be unlawful to re-record prerecorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.

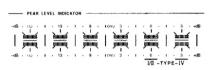
To erase a tape without making a new recording...

In step @ "RECORDING", set the DOLBY B NR switch to OFF and, in step 6, set the INPUT LEVEL control to MIN.

Recording level adjustment

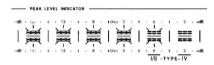
Adjust the recording level while observing the PEAK LEVEL INDICATOR indication.

For example: With TYPE IV tape



Because of metal tape's higher saturation level, it is OK that "+3" lights occasionally.

With TYPE I or TYPE II tape



It is OK that "+0" lights occasionally.

- . When the recording level is too low, the hiss noise inherent in the tape will be conspicuous.
- · When the recording level is too high, exceeding the saturation level, the recording will contain cracking noise and will be dis-

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level of the tape to be used. The best level varies depending on the type of music and type of tape so it is better to make test recordings, using FM music, records, etc.

DOLBY B NR switch

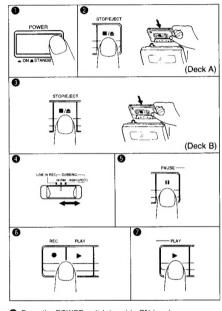
. The tapes recorded using NR must be played back through the corresponding circuit.

- 1. Proper sound quality will not be obtained if different NR switch settings are used during recording and playback.
- 2. When recording or playing back a tape with the NR switch set to ON, be sure to set the DUBBING switch to LINE IN REC.

DUBBING

Synchro dubbing

Operate in the order of the numbers in the illustration.



- Press the POWER switch to set to ON (__)
- 2 Insert a prerecorded tape into deck A.
- Insert the tape to be recorded on into deck B.
- Set the DUBBING switch to NORM SPEED when performing normal-speed dubbing and to HIGH SPEED when performing high-speed dubbing.
- 6 Press the II PAUSE button.
- Press the REC and ► PLAY buttons simultaneously. (Deck B)
- Press the PLAY button (Deck A). Dubbing will start.

Note when stopping deck A during dubbing

Set deck B to record-pause mode and press the ■/ STOP/ EJECT button of deck A. Since the III PAUSE button of deck B will be released, causing deck B to return to record mode, press the II PAUSE button again.

Dubbing and DOLBY B NR switch

During dubbing, the same NR mode selected for the playback cassette is applied to the recording cassette, regardless of the position of the NR switch.

Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL

Notes at dubbing

- 1. Normal-speed dubbing is recommended to obtain good
- 2. Television receivers placed close to the deck may cause interference on the recorded signal when the deck is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.

MAINTENANCE

The importance of cleaning

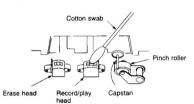
When the tape is moving, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller.

- When they become too dirty,
- . tone quality deteriorates.
- · the output sound level drops. . the previous sound is not erased satisfactorily.
- recordings are not satisfactory.

Because of this, clean the heads, etc. every 10 hours of use so that optimum recordings will be made.

Cleaning the heads, pinch roller and capstan

Example: Deck B



Wipe the heads, the capstan, etc. with a cotton swab with its tip

For effective cleaning, use a cleaning kit available from your audio store. After cleaning, be sure that the cleaning fluid has completely dried before loading a cassette.

Demagnetizing the heads

Magnetic objects brought close to the head or using the deck for a long period of time, results in magnetization of the head, thus noise occurs. When the noise is excessive, high frequencies on the recorded tape may be erased.

Demagnetize the heads and other metal parts that come into contact with the tape every 20-30 hours of use with a head demagnetizer (available from your audio store).

Regarding the use of a demagnetizer, see its instructions.

1 Location of Main Parts

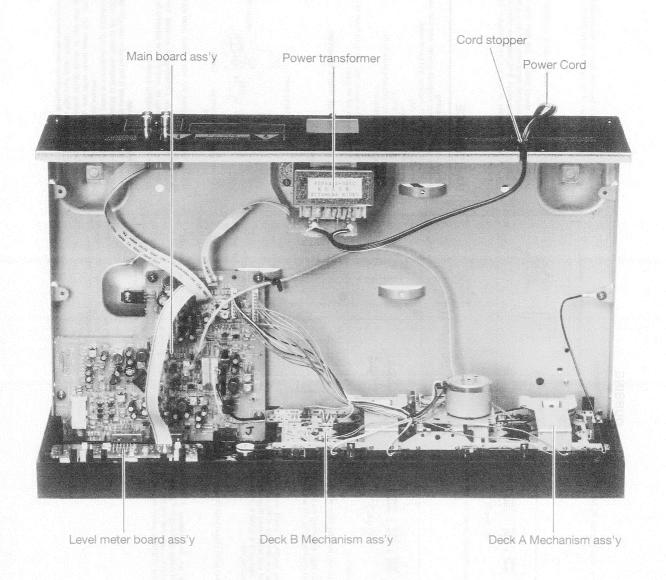


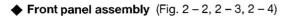
Fig. 1 - 1

2 Removal of Main Parts

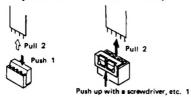
■ Enclosure Section

◆ **Top cover** (Fig. 2 - 1)

- 1. Remove four screws ① retaining the top cover from both side.
- 2. Remove two screws ② retaining the top cover from the back side.
- 3. To remove the top cover, slide in direction of allow and lift away (refer to Fig. 2 1).



- 1. Remove the top cover as described in above.
- 2. Remove three screws ③ retaining the front panel ass'y from bottom side.
- 3. Remove the input volume knob ④ from the front panel ass'y.
- 4. Remove the rec/dubbing switch knob and dolby NR switch knob (5) from the front panel ass'y.
- 5. Remove one screw 6 and one GND wire.
- 6. Release the level meter board ass'y from four pawls ⑦ on the board and pull it forward.
- 7. Disconnect all connectors between the mechanism ass'y, front panel ass'y and the main board ass'y.



Mechanism assembly

- ★ Although the mechanism assembly can be removed without detaching the front panel ass'y, it is recommended to detach the front panel ass'y to do the work with ease.
- 1. Remove the counter belt (8) from the tape counter. (Fig. 2 4)
- 2. Remove six screws ③ retaining the mechanism ass'y. (Fig. 2 4)

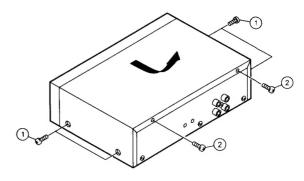


Fig. 2 - 1

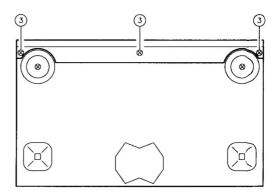


Fig. 2 - 2

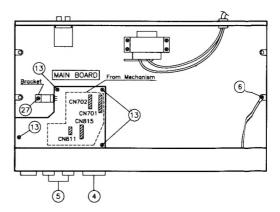
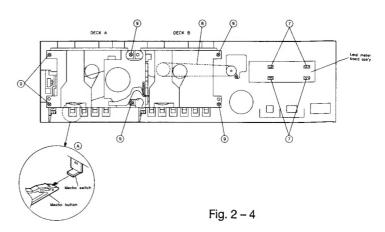


Fig. 2 - 3



igoplus Cassette holder ass'y (Fig. 2 – 5, 2 – 6, 2 – 7)

- 1. Remove the mechanism ass'y as described in above.
- 2. Remove the two damper ass'y (1) (for easy reassembling work). Insert an originally (-) screwdriver or the like in to the gap between the damper and the front panel to disengage the pawl, and draw the damper ass'y outwards.
- 3. Remove the two eject spring (1) from the cassette holder ass'y and remove the two cassette holder ass'y from front panel ass'y.

NOTE: For reassemble the eject spring, refer to Fig. 2-7.

◆ Mecha button ass'y (Fig. 2 – 5)

- 1. Remove the six screws ② retaining the mecha button ass'y of deck A and B.
- 2. Remove two earth plate and mecha button ass'y of deck A and B.

♦ Main board ass'y (Fig. 2 – 3)

- 1. Remove one screw ② retaining the bracket.
- 2. Remove four screws (3) retaining the board.
- 3. Disconnect CN901 from the power trans board ass'y.
- 4. Unsolder the FW851 from the line IN/OUT board ass'y.
- 5. Unsolder the FW852 from the level meter board ass'y.

Reassembling procedure of the front panel ass'y

- 1. Attach the level meter board ass'y to the panel with four pawls.
- 2. Attach the cassette holder ass'y to the front panel ass'y.
- 3. Engage the eject spring properly.
- 4. Install the damper. (Push the pawl side last to engage it.)
- 5. Attach the mecha button ass'y to the front panel with six screws and two earth plate.
- 6. Attach the mechanism ass'y to the panel with six screws.
- **NOTE:** For reassemble the mecha button ass'y to the mecha switch ass'y on the mechanism ass'y, insert the edge of mecha switch to the mecha button as shown in (a) on Fig. 2 4.
- 7. Attach the counter belt to the tape counter.
- Insert the input volume knob, rec/dubbing switch knob and dolby NR switch knob to the front panel.

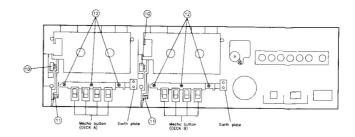
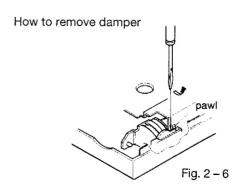


Fig. 2 - 5



Engage the eject spring in order to \bigcirc , \bigcirc and \bigcirc

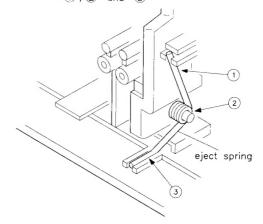


Fig. 2 - 7

■ Mechanism Section

◆ PB head and REC/PB head (deck A and deck B) (Fig. 2 – 8)

- 1. Remove one screw (3) retaining the right side of the head.
- 2. Loosen the screw (4) and draw out the head.

◆ Dummy head and FE head (deck A and deck B) (Fig. 2 - 8)

1. Remove two screws (5) retaining the dummy head and FE head.

◆ Pinch roller ass'y (Fig. 2 – 8)

- 1. Release two springs (6) and (7).
- 2. Pull out the pinch roller ass'y upward.



1. Pull out the supply reel disk ass'y upward.

◆ Take up reel disk ass'y (Fig. 2 - 8)

- 1. Remove sensing lever (8) upward.
- 2. Pull out the take up reel disk ass'y upward.

♦ Flywheel ass'y (Fig. 2 − 8, 2 − 9)

- 1. Remove four screws (9) retaining FL retainer.
- 2. Remove RF belt @ from the flywheel ass'y and main belt @.
- 3. Remove one washer 22.

◆ Motor ass'y (Fig. 2 - 9)

- 1. Remove one screw 23 retaining P. kick lever (B).
- 2. Remove one screw **(2)** retaining P. kick lever and remove spring **(3)**.
- 3. Remove three screws 26.

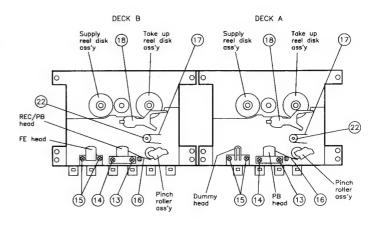


Fig. 2 - 8

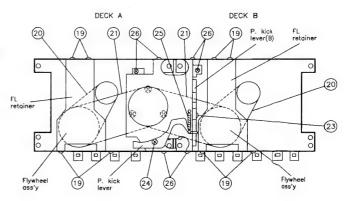


Fig. 2 - 9

3 Main Adjustment

Measuring instruments required for adjustment

- (1) Low frequency oscillator(oscillation frequency 50Hz 20kHz, 0dB output with 600 Ω impedance)
- (2) Attenutor(600 Ω impedance)
- (3) Electronic voltmeter
- (4) Standard tapes

VT712 or VTT712 (3 kHz tape speed, wow and flutter measurement)

VT727 or VTT727 (400 Hz) (DOLBY standard level) TMT735 (1 k, 12.5 k), VT739 or VTT739 (63, 1 k, 10 k) (play back frequency)

VT705 or VTT704 (12.5 kHz) (azimuth) TMT6447, TM6448 (music scan)

- (5) Recording reference tapes AC-225 (Normal), AC-514 (High), AC-713 (Metal)
- (6) 600 Ω resistors (for attenuator matching)
- (7) Distortion meter (bandpass filter)
- (8) Torque gauge (cassette) for CTG-N, TW2111, TW2231 and TW2241, mechanism adjustments

- (9) Wow & flutter gauge
- (10) Freequency counter gauge
- (11) M300 gauge
- (12) Band pass filter (1 kHz)
- ◆ Power supply voltage

Set the line voltage selector switch to 240V/ 230V/ 220V/ 127V/ 120V/ 110V according to your local voltage.

AC230V, 50/60Hz : B/EN/G version AC120V, 60Hz : C/J version

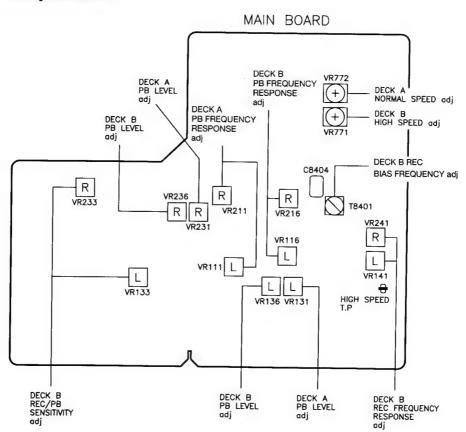
AC230/127/110V, 50/60Hz: U/UB version

(13) Standard position of the switch and volume knob Switches and volume knobs Setting position

INPUT LEVEL : MAXIMUM DOLBY NR : OFF

REC/DUBBING : LINE

♦Location of Adjustment



◆ Mechanism Adjstment

0dBs = 0.775V

Item	Conditions	Adjustment and Confirmation	Standad value	Adjust point
Adjusting Head azimuth	Test tape: VT705 (12.5 kHz)	 Connect an electronic voltmeter to the LINE OUT terminals. Play back the VT705 (12.5 kHz) test tape. Adjust the head angle with the screw (A) until the reading of the electronic voltmeter becomes maximum for both channels (phase difference must be "0".) Confirm that different play back level of 12.5 kHz recorded tape by deck B between deck A and B, should be within 2 dB. After adjusting, apply lock paint on the screw (A). 	Maximum Deck A, B	Screws (A)
Adjusting Tape speed (motor speed)	1. After adjustment of normal speed, then adjust high speed. 2. For high speed adjustment, set the deck for play mode and shortcircuit between HIGH SPEED TP and GND. 3. Do not do anything while HIGH SPEED TP and GND are short circuited. Test tape: VT712 (3 kHz)	At deck A, adjust VR772 for normal speed at 3010Hz. 5. Adjust for high speed (Deck B) After adjustment of normal speed, At deck B, adjust VR771 for high speed at 5100Hz. 6. After adjusting, play back the VT712 test		Deck A: Normal;VR772 Deck B: High;VR771
Checking wow and flutter	Test tape: VT712 (3 kHz)	Connect a wow and flutter meter to LINE OUT terminals. Play back the VT712 test tape. Check to see if the reading of the meter is less than 0.17% (WRMS).	less than 0.17% (WRMS)	
Checking play back torque	Torque gauge TW2111(FWD)	Employ a torque testing cassette tape TW2111 (FWD) for the checking, or remove the cassette cover and use a torque gauge.		
Checking fast forward/ rewind torque	Torque gauge TW2231 (FF) TW2241 (REW)	Measure the torque in the fast forward mode in the same manner as in the above. Test cassette: TW2231 (FF) TW2241 (REW)	55 – 200 g·cm	

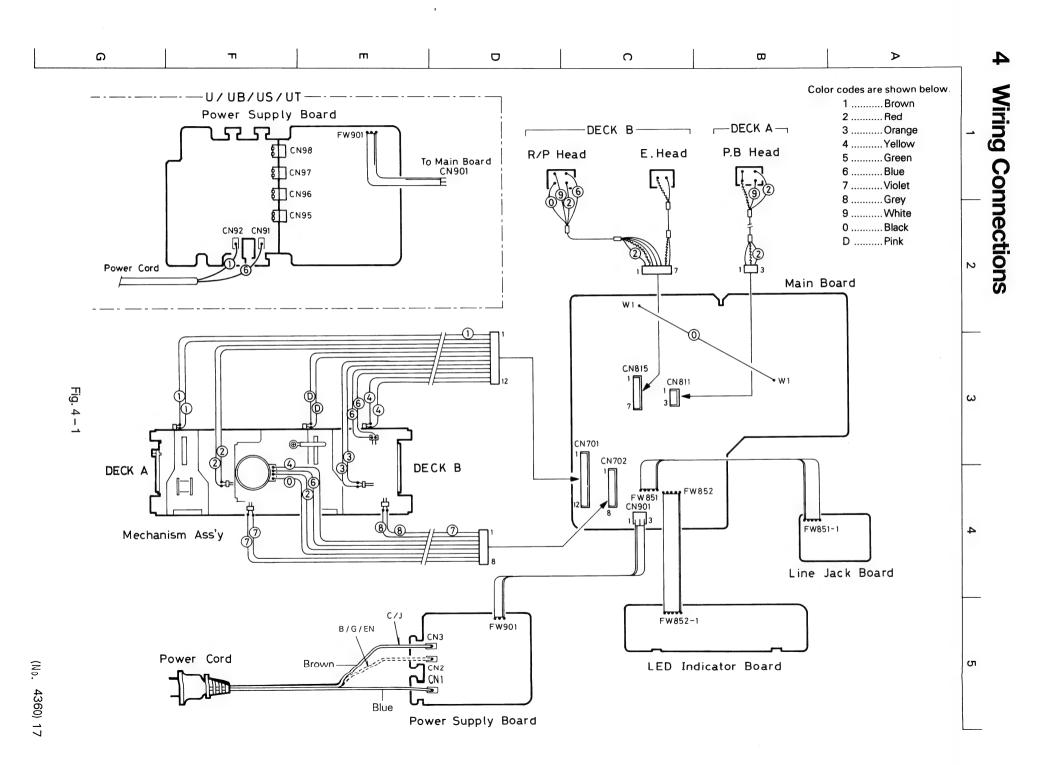
♦ Electrical Adjustment Procedure

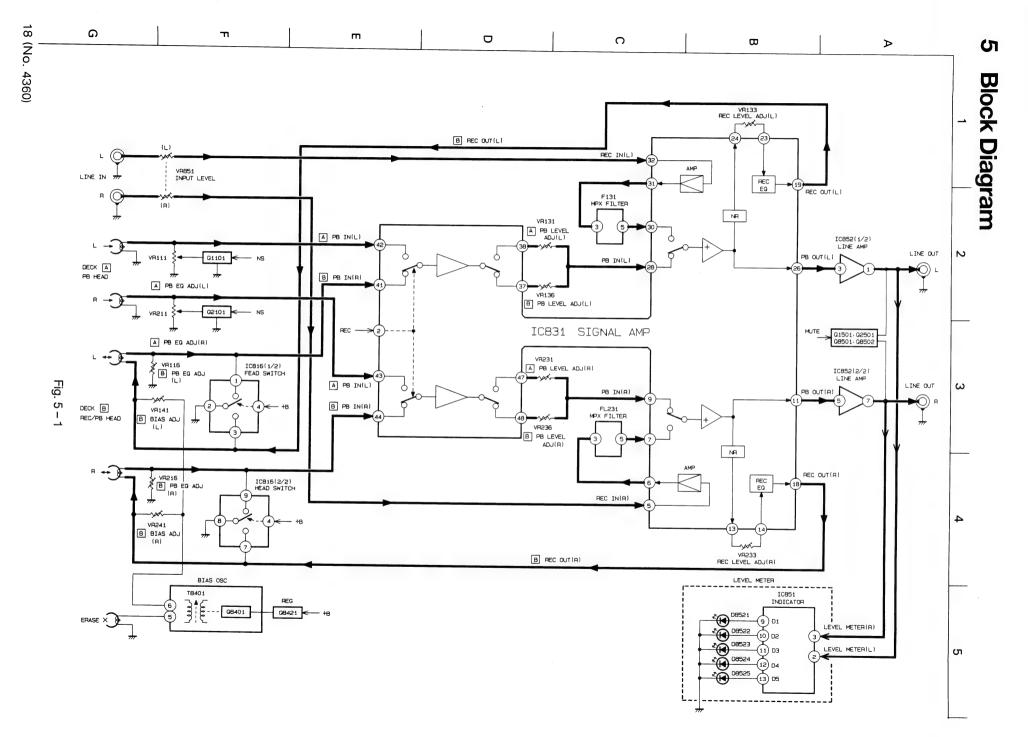
		neck and A	Check and Adjustment				
1 Cheking DOLBY			Input signal (Frequency, level)	Output raise value,deviation value			
circuit			1kHz, cal 40dB	+5.7 dB ± 2 dB			
(Rec.mode)		DOLBY B (Rec)	5kHz, Cal. – 20dB	+3.5dB ± 1.5 dB			
		(1100)	1kHz, Cal.	$0 dB \pm \frac{0.5}{1.0} dB$			

Item	Conditions	Adjustment and Confirmation	Standard	Adjusting
*2 Play back level adjustment	Test tape VT727: 400 Hz	Play back VT727 then confirm that the level at LINE OUT is -4.5 dBs ± 0.5 dB. Adjust VR136, VR236 (deck B) and VR131, VR231 (deck A) so that LINE OUT level becomes -4.5dBs. Difference between Lch and Rch must be less than 1 dB at LINE OUT.	-4.5 dBs ± 1dB	Deck B L: VR136 R: VR236 Deck A L: VR131 R: VR231
*3 Playback frequency response adjustment	Test tape TMT735:1kHz/12.5kHz VT739: 1 kHz/63 Hz	Play back TMT735 test tape, and adjust VR116, VR216 (deck \boxed{B}) and VR111, VR211 (deck \boxed{A}) so that deviation of 12.5 kHz to that of 1 kHz is 1 \pm 0.5 dB (deck \boxed{A}) and 0 \pm 0.5 dB (deck \boxed{B}). Then, play back VT739 test tape to confirm that deviation of 63 Hz to 1 kHz is +2 \pm 3 dB.	as reference, +1 \pm 0.5 dB (deck \boxed{A}) and	Deck L: VR116 R: VR216 Deck L: VR111 R: VR211
*4 Bias frequency adjustment	Tape: Metal Mode: REC Frequency counter Input impedance: more than 1MΩ	Connect frequency counter to the lead clipping body of C8404 and adjust T8401 so that the counter reads 95kHz.	95kHz ± 1 kHz	Deck █ T8401
5 Input sensitivity level check		 Supply a 1kHz signal to the LINE IN terminals at -20dBs, confirm that LINE OUT level is -8dBs. Confirm that difference level between left and right within 2dB at LINE IN terminals. 	LINE IN : -20dBs ± 2 dB	

Item	Conditions	Adjustment and Confirmation	Standard	Adjusting
*6 REC/PB frequency response adjustment	LINE INPUT level; Ref20 dB (-40 dBs ± 2 dB) NR switch : OFF Test tape : Normal	Record the 1.25 kHz and 12.5 kHz signals at the level of –20 dB (20 dB lower than the reference level). Playing back the recorded signals, adjust VR141 and VR241 so that the level of the 12.5 kHz signal is 0.5±0.5dB to the level of the 1.25kHz.	$0.5 \pm 0.5 \mathrm{dB}$ higher than	Deck B L : VR141 R : VR241
		Decrease in high frequencies Decrease in high frequencies Decrease in high frequencies Appropriate the high bias cure No 50 Hz 1 kHz 12.5 kHz Frequencies	pias current	
*7 Recording/ Playback sensitivity adjustment	NR switch : OFF Test tape : Normal LINE INPUT level; Ref20 dB (-40 dBs ± 2 dB)	1) Apply 400 Hz signal to the LINE IN terminals, record 400 Hz signal at Ref. –20 dB input for both L and R channels at a normal tape. 2) Play back the recorded part, and adjust the recording level controls so that LINE OUT terminal level becomes –27.5 dBs. Then adjust VR133 and VR233 so that LINE OUT terminal level becomes –27.5 dBs.	Normal: -27.5 ± 0.5dBs High Metal: -27.5 ± 1 dBs (Difference between L and R within 0.5 dB)	Deck B L: VR133 R: VR233
8 Maximum out put check		Supply 1 kHz signal to the LINE IN terminal in the Rec. monitoring mode, and read non-clipped signal level at the LINE IN terminal.	LINE OUT: more than 0dBs	
9 Checking record/ playback distortion		1) Record a 1 kHz, -20 dBs signal to LINE IN terminals. 2) Play back the recorded part, Check the output with a distortion meter to see if the value conforms to the standard value.	Nornal: Less than 2% High Metal: Less than 3%	
10 Checking signal to noise ratio recording playback		 Record a 1 kHz, -20 dBs signal, Stop the input by disconnecting from the terminal to perform non-signal recording. Play back the recorded part, Measure the -8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. 	More than 40 dB High Metal: More than 41	

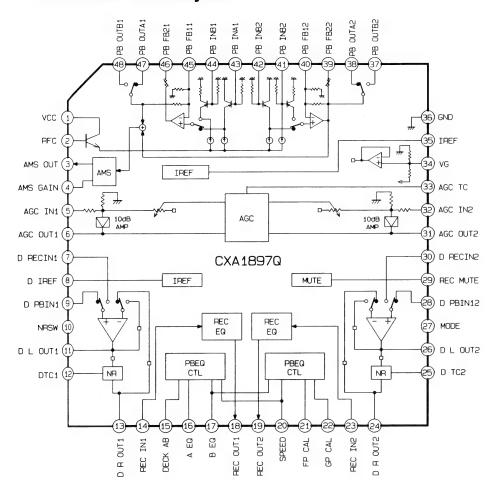
Item	Conditions	Adjustment and Confirmation	Standard	Adjusting
11 Checking erasing coefficient		1) Apply a 400 Hz, Ref. +20 dB signal to the LINE IN terminals. 2) Perform recording with the signal enhanced by 20 dB. 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non- erased part to compare with an electronic voltmeter. For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter. Input (1 kHz) Band pass filter Electronic voltmeter	dB	

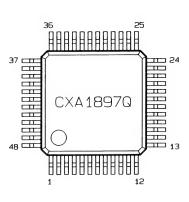


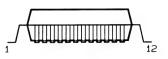


6 IC Block Diagrams

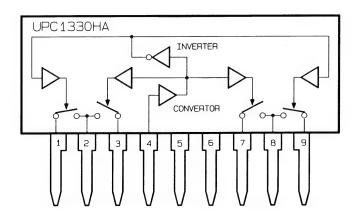
■ IC831 (CXA1897Q) REC/PB AMP and Dolby NR

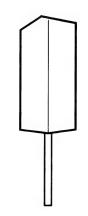




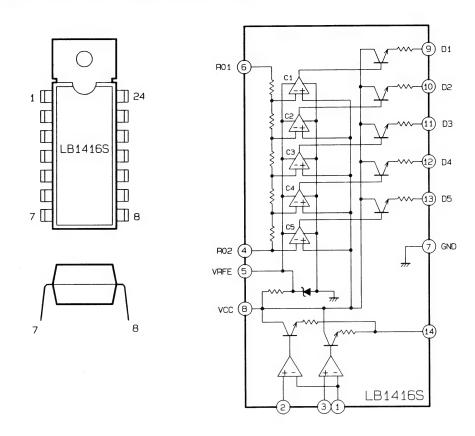


■ IC816 (UPC1330HA) B REC/PB Switch

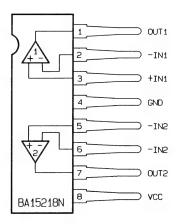




■ IC851 (LB1416S) Level Meter LED Control Micon



■ IC852 (BA15218N) Line Amp



7 Standard Schematic Diagrams 10 LINE AMP U/UB (for Other Areas) D J (for U.S.A) C (for Canada) 0FF ←→ 0N 00LBY B NP SM SB301 0SS7A22-V10 A (for Australia) G (for Germany) B (for U.K.) EN (for Continental Europe) 7.7. 104 A MOTOR CONTROL ULIAGES ARE DO-MEASURED WITH A DIGITAL VOLT METER THOUT INFUT SIGNAL. DODITION MEDI HORMAL SPEED CURBING MIN OF F-METAL LESS OFFERINGS SPECIFIED. LESS STEPRINGS SPECIFIED. LESS STEPRINGS SPECIFIED. LESS STEPRINGS ARE SAW CHARMAN CAPACITION OF SOV MYLAR CAPACITION. LERSISTORS ARE SAW CHARMAN FIPPOPEL. LESS STANCE VALUES ARE IN COMMINICAPACITION OF SOV MYLAR CAPACITION. LERSISTANCE VALUES ARE IN COMMINICAPACITION OF SOV MYLAR CAPACITION. LERSISTANCE VALUES ARE SAW FIPPOPEL. LINGUICTANCE VALUES ARE IN THE PROPERLY LINGUICTANCE VALUES ARE SAW THE PROPERLY OF CAPACITANCERATED VOLTAGE (V). L DECK A Playback signal line +B Line 01101- 02101- 0701- 0702- 0703- 0772-0773- 08302-L DECK B Playback signal line G Recording signal line 29C1740(RS) or KTC3199(GL) DTC143ES or KAC101M △Psrts are safety assurance parts. Fig. 7 – 1 When replacing those parts make sure to use the specified one.

Fig. 8 – 3

Fig. 8 – 2

Parts List

22 (No. 4360)

			BLOCK NO.	0111111
7	REF. PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 701 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C 702 QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 902 QCF11HP-103	C.CAPACITOR	.010MF +100:-0%	
	C 903 QCF11HP-103	C.CAPACITOR	.010MF +100:-0%	
	C 905 QET41EM-108	E.CAPACITOR	1000MF 20% 25V	
	C 939 QET41CM-477	E CAPACITOR	470MF 20% 16V	
۷	CN 1 EMZ4001-001	TAB	LEAD TERMINAL	B.EN.G.C.J
	CN 2 EMZ4001-001	TAB	LEAD TERMINAL	B, EN, G
	CN 3 EMZ4001-001	TAB	LEAD TERMINAL	C.J
_	CN701 TTL25V-012	CONNECTOR		
	CN702 TTL25V-008	CONNECTOR		
	CN811 TTL25V-003	CONNECTOR		
	CN815 VMC0040-007	CONNECTOR		
	CN901 EMV7145-003Z	SOCKET		
	C1101 QCBB1HK-391Y	C.CAPACITOR	390PF 10% 50V	
	C1102 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C1107 QCBB1HK-181Y	C.CAPACITOR	180PF 10% 50V	
	C1151 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C1152 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
_	C1301 QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C1302 QFN41HJ-153	M.CAPACITOR	.015MF 5% 50V	
	C1303 QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C1304 QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C1305 QET41HM-474	E CAPACITOR	.47MF 20% 50V	
_	C1306 QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C1307 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1308 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1309 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1310 QETC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
_	C1311 QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C1312 QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C1313 QCXB1CM-392Y	C.CAPACITOR	3900PF 20% 16V	
	C1315 QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C1316 QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1317 QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C1318 QCS32HJ-151ZV	C.CAPACITOR	150PF 5% 500V	
	C1319 QFN31HJ-392Z	M.CAPACITOR	3900PF 5% 50V	
	C1320 QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C1321 QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C1401 QCS11HJ-221	C.CAPACITOR	220PF 5% 50V	
	C1501 QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C1521 QETC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C1531 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C2101 QCBB1HK-391Y	C.CAPACITOR	390PF 10% 50V	
	C2102 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C2107 QCBB1HK-181Y	C.CAPACITOR	180PF 10% 50V	
	C2151 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C2152 QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C2301 QET41AM-107	E CAPACITOR	100MF 20% 10V	
_	C2302 QFN41HJ-153	M.CAPACITOR	.015MF 5% 50V	
	C2303 QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C2304 QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C2305 QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C2306 QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C2307 QET41HM-475	E CAPACITOR	4.7MF 20% 50V	

٦	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
					SUFFIX
	C2308	QET41HM-475 QET41HM-475	E CAPACITOR E CAPACITOR	4.7MF 20% 50V 4.7MF 20% 50V	
1	C2310	QETC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C2311	QET41EM-1042	E CAPACITOR	10MF 20% 25V	
1	C2312	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
+	C2313	QCXB1CM-392Y	C.CAPACITOR	3900PF 20% 16V	
	C2315	QET41EM-106	E CAPACITOR	10MF 20% 25V	
1	C2316	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
1	C2317	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
ı	C2318	QCS32HJ-151ZV	C.CAPACITOR	150PF 5% 500V	
1	C2319		M.CAPACITOR	3900PF 5% 50V	
ı	C2320	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
ı	C2321	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
ı	C2401	QCS11HJ-221	C.CAPACITOR	220PF 5% 50V	
ł	C2501	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
1	C2521	QETC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
١	C2531	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
Ì	C8101	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
١	C8151	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
1	C8152	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
1	C8301	QETC1CM-337ZM	E CAPACITOR	330MF 20% 16V	
1	C8302	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C8303	QET41EM-476	E CAPACITOR	47MF 20% 25V	
1	C8304	QET41CM-107	E CAPACITOR	100MF 20% 16V	
ı	C8306	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
1	C8307	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C8401	QFN41HJ-222	M.CAPACITOR	2200PF 5% 50V	
	C8402	QFN81HJ-103	M. CAPACITOR	.010MF 5% 50V	
١	C8403	QET41EM-106	E CAPACITOR	10MF 20% 25V	
Į	C8404	QFG32AJ-153ZN	PP CAPACITOR	.015MF 5% 100V	
1	C8501	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	1
1	C8521	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	·C8522	QEK41EM-106	E.CAPACITOR	10MF 20% 25V	
ı	C8523	QEK41EM-106	E.CAPACITOR	10MF 20% 25V	
	C8531	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C8532	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
ł	D 701	188133	SI DIODE		
ı	D 702	188133	SI DIODE		
ł	D 703	188133	SI DIODE		
	D 704	188133	SI DIODE		-
	D 705	188133	SI DIODE		
	D 706	188133	SI DIODE		
	D 707	188133	SI DIODE		
	D 708	188133	SI DIODE		
	D 709	188133	SI DIODE		
Ì	D 710	188133	SI DIODE		
	D 711	188133	SI DIODE		
	D 712	188133	SI DIODE		
	D 713		SI DIODE		
	D 714	188133	SI DIODE		
	D 715	188133	SI DIODE		
ļ	D 716	188133	SI DIODE		
	D 717	188133	SI DIODE		
	D 718	188133	SI DIODE		
١.	D 901	1SR35-100	SI DIODE		1

_				BLOCK NO. O	
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Δ	D 902		SI DIODE		
Δ	D 903		SI DIODE		
Δ	D 904		SI DIODE	1	
1.		188133	SI DIODE	1	
L	D8301	188133	SI DIODE		
1		188133	SI DIODE		
1	D8303		SI DIODE		
		188133	SI DIODE		i
		188133	SI DIODE		
\vdash		188133	SI DIODE		
1	D8424		SI DIODE		
		188133	SI DIODE		
1		SLR-56DCTB7	LED	-	C.J
		SLR-56MCTB7	LED	-	B.EN.G.U.UB
		SLR-56MCTB7	LED	-13	B.EN.G.U.UB
		SLR-56DCTB7	LED	-13	C,J
		SLR-56DCTB7	LED	-8	C.J
		SLR-56MCTB7	LED	-8	B.EN.G.U.UB
		SLR-56MCTB7	LED	-3	B, EN, G, U, UB
		SLR-56DCTB7	LED	-3	C,J
П		SLR-56VCTB7	LED	0	
\mathbf{I}	D8525		LED	3	
		SLR-56VCTF7	LED	REC	
	FL131		FILTER		
Ц		VQZ0114-001	FILTER		
Н		UPC1330HA	IC		
	IC831	CXA1897Q	IC		
П	IC851	LB1416S	IC		
	IC852	BA15218N	IC	i	
		UPC78M12AHF	IC		
П		EMNOOTV-421AJ2	PIN JACK		
П	L1301	VQP0001-183	INDUCTOR		
П	L1302	VQP0001-562ZS	INDUCTOR	1	
		VQP0001-183ZS	INDUCTOR		
H		VQP0001-562ZS	INDUCTOR		
		KRC103M-T	TRANSISTOR		
П	Q 702	KRC103M-T	TRANSISTOR	1	
H	Q 703 Q 771	KRC103M-T	TRANSISTOR	1	
		KTA1267(YG)-T	TRANSISTOR		
H	Q 772 Q 773	KRC103M-T KRC103M-T	TRANSISTOR		-
11	Q1101	KRC103M-T	TRANSISTOR		
	Q1301	KRC103M-T	TRANSISTOR	i	i
П		KRC111M-T	TRANSISTOR TRANSISTOR		
П		KTC3203(0Y)-T	TRANSISTOR		
H		KRC103M-T	TRANSISTOR		
П	92301	KRC111M-T	TRANSISTOR		
1 1	02302	KRC111M-T	TRANSISTOR		
П	Q2501	KTC3203(0Y)-T	TRANSISTOR		
		KRC101M-T	TRANSISTOR		
\Box		KRC103M-T	TRANSISTOR		
		2SC2001(L,K)	TRANSISTOR		1
1		KTC3203(0Y)-T	TRANSISTOR		}
(TRANSISTOR		
	08501	KRA103M-T	TRANSISTOR		
ш	-0201	MMA V 2011 1	INAMOIOTOR	<u> </u>	

R	EF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q	8502	KTC3199(GL)-T	TRANSISTOR		
R	701	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	702	QRD161J-223	CARBON RESISTOR		
R	703	QRD161J-223	CARBON RESISTOR		
R	704	QRD167J-562	CARBON RESISTOR		
R		QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	706	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	707	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R	708	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R		QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	1		CARBON RESISTOR	10K 5% 1/6W	
1	711	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	713	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	714	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	771	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	1		CARBON RESISTOR	1.2K 5% 1/6W	
	773	QRD161J-224	CARBON RESISTOR		
	774	QRD161J-184	CARBON RESISTOR		
	775	QRD161J-103	CARBON RESISTOR		
R		QRD161J-223	CARBON RESISTOR		
	777	QRD161J-223	CARBON RESISTOR		
	1102		CARBON RESISTOR		
1	1103		CARBON RESISTOR		
	1152		CARBON RESISTOR		
	1301	QRD161J-680	CARBON RESISTOR		
	1302		CARBON RESISTOR	15K 5% 1/6W	
1	1303		CARBON RESISTOR		
	1304		CARBON RESISTOR		
	1305	QRD167J-682	CARBON RESISTOR		
	1306	QRD161J-393	CARBON RESISTOR		
		QRD161J-104	CARBON RESISTOR		
	1310	QRD161J-103 QRD161J-154	CARBON RESISTOR		
	1311	QRD161J-154			
1	1312	QRD161J-103	CARBON RESISTOR		
		QRD161J-103	CARBON RESISTOR		
	1501	QRD161J-103	CARBON RESISTOR		
	1502	QRD167J-332	CARBON RESISTOR		
1	1511	QRD161J-433	CARBON RESISTOR		
	1512	QRD161J-822	CARBON RESISTOR		
	1521	QRD161J-102	CARBON RESISTOR		
	1522	QRD161J-223	CARBON RESISTOR		
1	1523	QRD161J-103	CARBON RESISTOR		
	1531	QRD161J-473	CARBON RESISTOR		
R:	1532	QRD161J-103	CARBON RESISTOR		
R:	1533	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
R:	1534	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R	2102	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2103	QRD161J-105	CARBON RESISTOR		
	2152	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	2301	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	2302	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2303	QRD161J-123	CARBON RESISTOR		
R	2304	QRD161J-222	CARBON RESISTOR		
Ra	2305	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	

				BLOCK NO.	
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Г	R2306	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
١	R2307	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
l	R2308	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W]
l	R2310	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
L	R2311	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R2312	QRD161J-103 QRD161J-103	CARBON RESISTOR	10K 5% 1/6W 10K 5% 1/6W	
	R2501	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R2502	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
ŀ	R2511	QRD161J-433	CARBON RESISTOR	43K 5% 1/6W	
H	R2512			8.2K 5% 1/6W	
	R2521	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R2522	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R2523	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
L	R2531	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
Г	R2532		CARBON RESISTOR	10K 5% 1/6W	
	R2533	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
	R2534	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R8101		CARBON RESISTOR	10K 5% 1/6W	
┝	R8151		CARBON RESISTOR	10K 5% 1/6W 10K 5% 1/6W	
۵	R8301	QRZ0077-680	FUS. RESISTOR	68 1/4W	B, EN, G, U, UB
Δ	R8301		UNF.C.RESISTOR	68 1/4W	C,J
Γ	R8302		CARBON RESISTOR		
	R8303		CARBON RESISTOR	18K 5% 1/6W	
	R8304		CARBON RESISTOR		
	R8305	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R8306	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
l	R8307	QRD161J-123	CARBON RESISTOR		
L	R8308	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R8309	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
l	R8310	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
ı	R8311		CARBON RESISTOR	22K 5% 1/6W	
١	R8312		CARBON RESISTOR		
┝	R8314	QRD161J-223	CARBON RESISTOR		
l	R8315		CARBON RESISTOR	22K 5% 1/6W	
ĺ	R8316		CARBON RESISTOR		
	R8401		CARBON RESISTOR	10K 5% 1/6W	
Δ	R8402	QRD14CJ-2R2SX	CARBON RESISTOR		
Ā	R8421	QRZ0077-100X	FUSE RESISTOR	10 1/4W	B, EN, G, U, UB
Δ	R8421		UNF.C.RESISTOR	10 1/4W	C.J
ĺ	R8422	QRD161J-471	CARBON RESISTOR		
ı	R8423		CARBON RESISTOR		
-	R8424	QRD161J-821	CARBON RESISTOR		
l	R8425	QRD161J-153 QRD161J-103	CARBON RESISTOR		
	R8501	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
L	R8502		CARBON RESISTOR	47K 5% 1/6W	
1	R8520		CARBON RESISTOR		
۲	R8523		CARBON RESISTOR	56 5% 1/6W	
	R8524	QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
1	R8525	ARD161J-560	CARBON RESISTOR	56 5% 1/6W	1
١	\ R8526		CARBON RESISTOR	33K 5% 1/6W	
L	R8527	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	

				BLOCK NO.	0 1
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
\Box	R8528	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R8529	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R8531	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R8532	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W]
	S 701	QSS7A23-V09	SLIDE SWITCH		
П	S 901	QST8101-V01	PUSH SWITCH		
	\$8301	QSS7A22-V10	SLIDE SWITCH		
	T8401	VQH7001-032	OSC COIL(BIAS)		
	VR111	QVPA601-204A	V.RESISTOR		
	VR116	QVPA601-204A	V.RESISTOR		
	VR131	QVPA601-503A	V.RESISTOR		
	VR133	QVPA601-203A	V.RESISTOR		
	VR136	QVPA601-503A	V.RESISTOR		
	VR141	QVPA601-104A	V.RESISTOR		
	VR211	QVPA601-204A	V.RESISTOR		
	VR216	QVPA601-204A	V.RESISTOR		
	VR231	QVPA601-503A	V.RESISTOR		
	VR233	QVPA601-203A	V.RESISTOR		
	VR236	QVPA601-503A	V.RESISTOR		
	VR241	QVPA601-104A	V.RESISTOR		
	VR771	QVPE612-502ZM	SEMI.V.RESISTOR		
	VR772	QVPE612-502ZM	SEMI.V.RESISTOR		į.
	VR851	QVDB12A-V01	V RESISTOR		
	Z 801	VMA4142-001	SHIELD PLATE(B)		
	Z 901	VMZ0125-001Z	FUSE CLIP	FOR F901	B, EN, G, U, UB
	Z 902	VMZ0125-001Z	FUSE CLIP	FOR F901	B, EN, G, U, UB

Power Supply Board Parts List (U/UB/US/UT only)

Δ	RE	F.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN CN CN	96 97	VMC0221-003 AMC0221-003 VMC0221-003	TAB TAB CONNECTOR CONNECTOR CONNECTOR	FOR POWER CORD FOR POWER CORD	U,UB U,UB U,UB U,UB U,UB
	CN S Z Z	91 91	VMC0221-003 QSS2325-112 VM20125-112 VM20125-0012	CONNECTOR SLIDE SWITCH FUSE CLIP FUSE CLIP	VOLTAGE SELECT FOR F902 FOR F902	U,UB U,UB U,UB

Exploded View of Enclosure Component Parts and Parts List 53 49 Α 67 66 69 (47) В **53** 10 66 Main Board С (II)6 -(12) Indicator Board 72 (71)(8)D (51) B 42 41 40 39 38 37 68 36 35 Ε Power Supply Board 3 (19) 59 (21) F 26) 61) 59 57 (**B**) 60 G 61

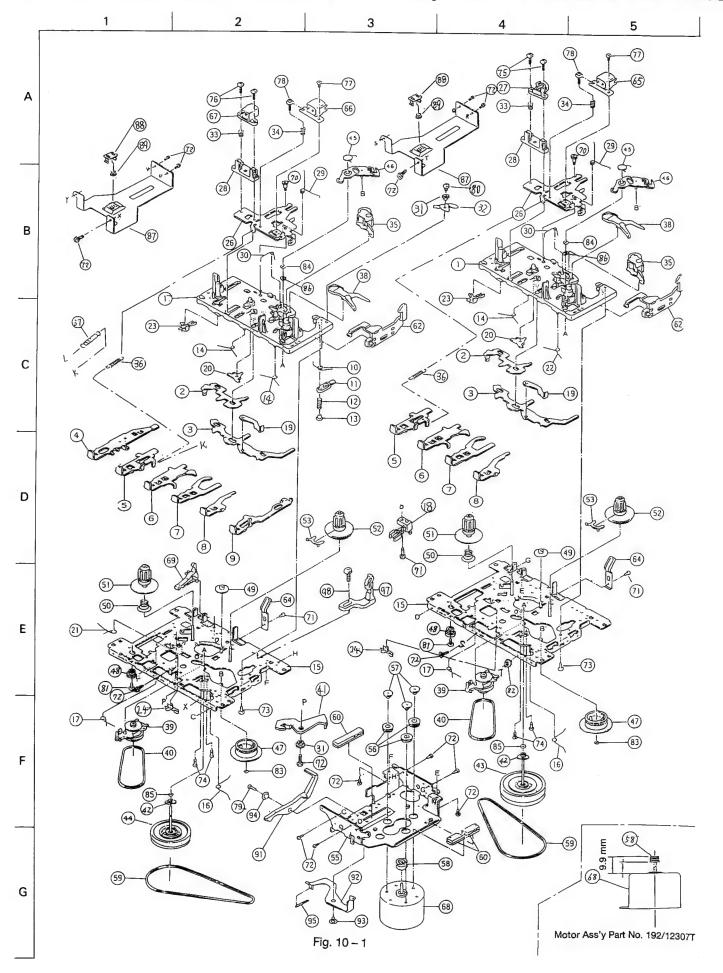
Fig. 9 - 1

● Enclosure Component Parts List

				BLOCK NO. MIM	M		
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	Α	ZCTDW118K-FB	FRONT PANEL ASS	NO.8-9,19-20	1		
		ZCTDW118J-FB	FRONT PANEL	NO.8-9,19-20	1	C,J	
	В		CASSETTE HOLDER	NO.26-28	1		
	С	ZCTDW118K-CH-B	CASSETTE HOLDER	NO.21-23	1		
Φ	1		FUSE	F901	1		
AAAAA		QMF51E2-R80SBS	FUSE	F901	1	J,U,UB	
Δ		QMF51E2-R20SBS	FUSE	F902	1	U,UB	
Δ	3		POWER TRANS	T901	1	U,UB	
Δ		VTP54Z2-011C	POWER TRANS	T901	1	B, EN, G	
Δ		VTP54A2-051C	POWER TRANS	T901	1		
	4	VKS5011-001	VOLTAGE CONTACT		1		
	5	SBSF3008M	SCREW	V.SELECTOR	2	U,UB	
1	6		CASSETTE MECHA.	•	1		
1	8		FRONT PANEL		1	B.EN.G.U.UB	
L		VJG1393-004UL	FRONT PANEL		1	C,J	
		E72968-001	JVC MARK		1 1		
1		VKC5190-101T	TAPE COUNTER		1		
		VKL5900-001	COUNTER BRACKET		1 1		
		GBSF2608Z	SCREW	COUNTER BRAKET	2		
		VKB3000-168	BELT	COUNTER	1		
1		VYH7779-00B	DUMPER ASSY		2		
1		VYH3917-001	LED HOLDER		1		
		VXP5327-002	POWER KNOB		1		
		VXL4445-002	VOLUME KNOB	INPUT LEVEL	1		
		VXS4409-002	SLIDE KNOB	NR/B TAPE SELEC	2		
		VJK3682-001	LENS (A)	OUT SIDE	1		
1		VJK3683-001	LENS (B)	IN SIDE	1		
		VJT2368-001	CASSETTE HOLDER	DECK: A	1		
1		VJK4475-001	CASS LENS	DECK: A	1		
L		VKY4180-002	CASSETTE SPRING	DECK: A	2		
	24	VKW5223-001	SPRING	DECK: A	1		
		VKW5223-001	SPRING	DECK:B	1		
		VKL7820-001	EARTH	FOR MECHA	1	V	
	26	VJT2368-002	CASSETTE HOLDER	DECK:B	1		
L		VJK4475-001	CASS LENS	DECK:B	1		
		VKY4180-002	CASSETTE SPRING	DECK:B	2		
1		VKL7820-001	EARTH	FOR MECHA	1		
		VKL7193-002	BUTTON BRACKET		2		
		SSSF2608Z	SCREW	FOR BUTTON BRAC	6		
L		VKS4843-002J	BUTTON LEVER		10		
	34		MECHA BUTTON	DECKA REC	1		
		VXP3762-002	MECHA BUTTON	DECKA PLAY	1		
		VXP3762-003	MECHA BUTTON	DECKA REW	1		
	_	VXP3762-004	MECHA BUTTON	DECKA FF	1 1		
L		VXP3762-005	MECHA BUTTON	FOR STOP/EJECT	1		
1		VXP3762-006	MECHA BUTTON	DECKA PAUSE	1		
		VXP3762-007	MECHA BUTTON	DECKB FF	1		
1		VXP3762-008	MECHA BUTTON	DECKB REW	1 1		
		VXP3762-009	MECHA BUTTON	DECKB PLAY	1		
L		VXP3762-010	MECHA BUTTON	DECKB REC	1		
		96610000T	SCREW	FOR LEAF SWITCH	3		
		640101125T	LEAF SWITCH		3		
		SDSF3010Z	SCREW	F.PANEL+MECHA	6		
1	47	VJC2558-003	REAR PANEL		1		
1	1	VJC2558-004	REAR PANEL		1	U,UB	

				BLOCK NO. MIM			
Λ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	48	VND4999-001	FCC LABEL (3)		1	J	1
Δ	49	QMP3900-200	POWER CORD		1	EN,G	
1		QMP7380-200	POWER CORD		1		
1		QMP1340-200	POWER CORD		1	1	
<u>A</u>		QMP5530-008BS	POWER CORD		1 1		1
	50		CORD STOPPER		1 1		
-2	51		SCREW	FOR POWER TRANS	4		
-		SBSF3008M	SCREW	FOR JACK	1		İ
-	53		SCREW	FOR REAR+CHASSI	3		
		VKZ4001-110	WIRE CLAMP	TOR REARTONASSI	1		
+		VKL1434-001	CHASSIS BASE		1		
	57						
		VKL7831-001	IC BRACKET		1		
		VJF4053-001	FELT SPACER		2		ŀ
	60	E47227-037	FOOT ASS'Y	EVOSDE I VEDOTO	2	J	
1		E406379-008SS	FOOT ASS'Y	EXSEPT J VERSIO	2		
		SBST3008Z	SCREW	BOTTOM (FRONT)	2		
		GBST3006Z	SCREW	FOR IC904	1		
	63	GBST3006Z	SCREW	FOR MAIN PWB	4		
		GBST3006Z	SCREW	FOR PIN JACK PW	1		
_		GBST3006Z	SCREW	FOR LUG WIRE	1		
		VKL1435-002S	TOP COVER		1		
	•	VKZ4614-001	SPECIAL SCREW	FOR TOP COVER	4		
		SBST3006M	SCREW	FOR TOP COVER	2		
		SBST3006M	SCREW	FOR TOP COVER			
1	69	VYN2353-C007PA	NAME PLATE		1		
		VYN2353-C006PA	NAME PLATE		1		
		VYN2353-C019PA	NAME PLATE		1		
		VYN2353-C104PA	NAME PLATE		1		
		VYN2353-C802PA	NAME PLATE		1		
		VYN2353-C808PA	NAME PLATE		1		
		VYN2353-C805PA	NAME PLATE		1	EN	
-							
+					-		
							1
-							
\perp							-
+							
	l			1			

10 Exploded View of Mechanism Component Parts and Parts List



A REF. PARTS NO. PARTS NAME REMARKS QTY SUFT 1 192114317T BASE ASS'Y 2 19211409T SWITCH ACTUATOR 3 19211438T PUSH B.ACTUATOR 4 19211422T BUTTON LEVER REC 5 19211484T BUTTON LEVER PLAY 6 19211424T BUTTON LEVER REW 7 19211425T BUTTON LEVER FF 8 19211426T BUTTON LEVER STOP 9 19211461T BUTTON LEVER STOP 9 19211461T BUTTON LEVER PAUSE 10 19211413T P CONT. SPRING 11 19211455T PAUSE LEVER (E) 12 19211412T SPRING 13 19211411T PAUSE STOPPER 14 19211414T TORSION SPRING 15 192101501ZT CHASSIS ASS'Y	FIX CL
2 19211409T SWITCH ACTUATOR 3 19211438T PUSH B.ACTUATOR 4 19211422T BUTTON LEVER REC 5 19211484T BUTTON LEVER PLAY 6 19211424T BUTTON LEVER REW 7 19211425T BUTTON LEVER FF 8 19211426T BUTTON LEVER STOP 9 19211461T BUTTON LEVER STOP 9 19211461T BUTTON LEVER PAUSE 10 19211413T P CONT. SPRING 11 19211455T PAUSE LEVER (E) 12 19211412T SPRING 13 19211411T PAUSE STOPPER	
19211409T SWITCH ACTUATOR 2 19211438T PUSH B.ACTUATOR 2 2 19211422T BUTTON LEVER REC 1 19211484T BUTTON LEVER PLAY 2 2 2 2 2 2 2 2 2	4
3 19211438T	
4 19211422T BUTTON LEVER REC 1 5 19211484T BUTTON LEVER PLAY 2 6 19211424T BUTTON LEVER REW 2 7 19211425T BUTTON LEVER FF 2 8 19211426T BUTTON LEVER STOP 2 9 19211461T BUTTON LEVER PAUSE 1 10 19211413T P CONT. SPRING 1 11 19211455T PAUSE LEVER (E) 1 12 19211412T SPRING 1 13 19211411T PAUSE STOPPER 1	j
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11 19211455T PAUSE LEVER (E) 12 19211412T SPRING 13 19211411T PAUSE STOPPER 1	
12 19211412T SPRING 13 19211411T PAUSE STOPPER 1	
13 19211411T PAUSE STOPPER 1	
4/ 40044447	
15 192101501ZT CHASSIS ASS'Y	
13 17210130171 CHASSIS ASS. 4	
16 19211416T TORSION SPRING 2	
47 400444477	
19 4/0104707	
18 64010138T	
19 182101159T E.KICK LEVER 2	ļ
20 192114201 STOPPER 2	
21 19211449T LEVER SPRING 1	
22 19211433T TORSION SPRING	
24 640101161T LEAF SWITCH MSW-17820MVD0 2	
24 640101161T	
27 18210328T DUMMY HEAD 1	
29 19210309T PANEL P SPRING 2	1
28 192103241	
31 19211437T P ARM COLLAR 2	
32 19211434T P.ROLLER ARM 1	
33 18210308T SPRING 2	
35 192104309T AZIMUTH SPRING 2 2 2 2 2 2 2 2 2	
36 18210150T PLAY BUTTON LEV 2	
37 18211311T TENSION SPRING 1	
79 40242/0/77	1
39 192107308T RF CLUTCH ASS'Y	
40 18210733T RF BELT	
(4) 400400047	
41 192102011 REC ARM 1 42 19210910T FL GEAR 2	
43 19210930T FLYWHEEL ASS'Y	
44 19210929T FLYWHEEL ASS'Y	
45 10212405T	
44 400404505	
/7 40040/00T	
48 10211/80T DACE COLLED	
(0) 193110707	İ
EO 4834404/T	
F4 40040F704F	
51 192105304T S. REEL ASS'Y	
52 192105303T T. REEL ASS'Y	
53 192105061 SENSOR 2	
>> 19211247 MOTOR BRACKET 1	
56 18211266T MOTOR RUBBER 3	1

BLOCK NO. M2MM

				BLOCK NO. M2	MM		
Δ.	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
十	57	18511418T	COLLAR SCREW		3		
	58	19211205AT	MOTOR PULLEY		1		
	59	19210923T	MAIN BELT		2		
		19211212T	MAT		2		
		19211302T	EJ. SLIDE LEVER		2		
_	64		PACK SPRING		2		
	65		R/P HEAD	283-30-69	2		
	67		E. HEAD		1 1		
1	68		MOTOR	SHU-2L03	1		
		18211069T	REC SAFETY LEVE	3 2203	1 1		
-		19211490T	COLLER SCREW(V)		2	~	
		91810000T	SCREW		1		
	-		SCREW		11		
		91800000T	TAP. SCREW		2		
		95790000T					
_		99991809T	SPECIAL SCREW		4		-
		98210000T	SPECIAL SCREW		2		
		922300 <u>0</u> 00T	SCREW		2		
	77	91150000T	SCREW(M2 X 3)		2		
	78	99220000T	SCREW(M2 X 7)		2		
	79	9P0420061T	SCREW		1		
	80	99992041T	SPECIAL SCREW		1		
	81	96740000T	TAPPING SCREW		2		
1		93240000T	WASHER		1		1
		94220000T	P.WASHER		2		
		99997001T	POLY.CUT WASHER		2 1 2 2		
+-		98820000T	POLY.WASHER		2		1
		94230000T	P WASHER				
	87		FL RETAINER(A)		2 2 2		
		18201302T	FL. THRUST PLATE		2		
			THRUST SPRING		2		
-+-		18201310T			1		
	91		P.KICK LEVER(B)				
		18211268T	P.KICK LEVER		1		
		18211223T	COLLAR SCREW		1		1
	94		COLLAR (B)		1		ŀ
		18211312T	SPRING		1		
	97	640101125T	LEAF SWITCH		1		
	98	96610000T	TH.TAP.SCREW		1 1		
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11 Packing Illustration and Parts List

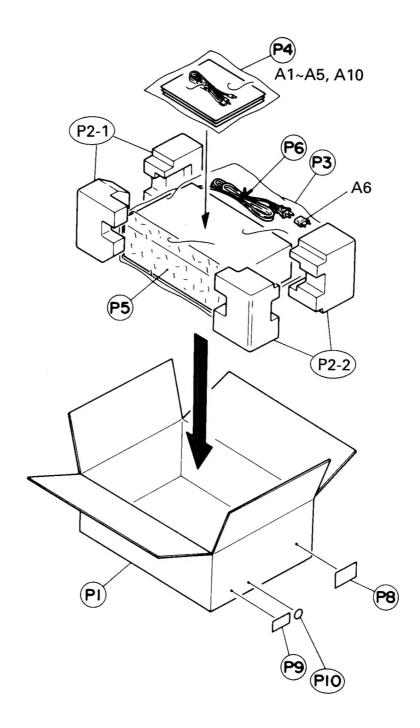


Fig. 11 – 1

Packing parts list

BLOCK	NO	M3MM

Φ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
П	P 1	VPC2353-C002	CARTON		1		
	P 2-1	VPH2479-001	CUSHION(L)		1		
	P 2-2	VPH2479-002	CUSHION(R)		1		
11	P 3	E300196-031B	ENVELOPE	FOR SET	1		
	P 4	VPE3005-007	POLY BAG	ACSSESSORES	1		
	P 5	VPK3001-012	SHEET	FOR FRONT PROTE	1		
	P 6	Q04141H	WIRE CLAMP	FOR POWER CORD	1		1
	P 8		SIRIAL TICKET		1		
	P 9		EAN CODE LABEL		1	li .	
	P10	QZLA001-011	MARK		1	EN.G	

Accessories list

BLOCK NO. M3MM

\triangle	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
П	Α	1	VMP0088-001J	PIN CORD		1		
	Α	2	VNN2352-121C	INSTRUCTIONS		1	B,U	
		1	VNN2352-661C	INSTRUCTIONS		1	C, EN, G, U, UB	
			VNN2352-671C	INSTRUCTIONS		1	B,J	
	Α	3	BT-20134	WARRANTY CARD		1	G	
			BT-20047F	WARRANTY CARD		1	J	
			BT-20066A	WARRANTY CARD		1	В	
11			BT-52002-1	WARRANTY CARD		1	С	
			BT-54003-1	WARRANTY CARD		1	В	
	Α	4	E43486-340A	SAFETY I.SHEET		1	В	
П			BT-20044G	SAFETY INST.		1	J	
	Α	5	BT-20071B	SVC CENTER LIST		1	С	
			BT-20137	SERVICE NETWORK		1	J	
	Α	6	V04062-001	AC PLUG		1	U,UB	
	Α	10	VND4247-005	VOLTAGE LABEL		1	U, UB	



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